SUPPLEMENTAL MATERIAL

Supplemental Table 1. Construction of Life's Simple 7 score.

Metric	Ideal	Non-ideal		
Smoking	Never or quit ≥ 12 months ago	Current or quit <12 months ago		
BMI	$< 25 \text{ kg/m}^2$	\geq 25 kg/m ²		
Nutrition*	4-5 healthy components	0-3 healthy components.		
Physical activity	≥150 min/week moderate intensity, or ≥75 min/week vigorous intensity, or ≥150 min/week of combined moderate and vigorous intensity	<150 min/week moderate intensity or <75 min/week vigorous intensity or < 150 min/week of combined moderate and vigorous intensity		
BP	Untreated and <120/<80 mmHg	Treated to $<120/<80$ mmHg or untreated $\ge 120/ \ge 80$ mmHg		
Fasting plasma glucose	Untreated and fasting plasma glucose <100 mg/dL or HbA1c < 5.7%	Fasting plasma glucose ≥ 100 mg/dL, HbA1c $\geq 5.7\%$ or treated		
Cholesterol	Untreated and < 200 mg/dL	$< 200 \text{ mg/dL}$ if treated or $\ge 200 \text{ mg/dL}$		

^{*}Based on 5 health dietary metrics (≥ 4.5 cups of fruits and vegetables a day, \geq two 3.5 ounces of fish servings per week, \geq 3 ounce servings of fiber rich whole grains a day, < 1500 mg sodium per day, and <36 fluid ounces per week of sugar-sweetened beverages). BMI = Body mass index; BP = blood pressure.

Supplemental Table 2. Baseline characteristics for JHS participants who underwent CMR imaging at Visit 3 versus those who did not undergo CMR imaging at Visit 3.

	No CMR Imaging at Visit 3 n = 2993*	CMR imaging at Visit 3 n=1202 [†]	p value	
Demographics				
Age, y	56.8 (45.4-65.7)	50.6 (43.4-59.1)	< 0.0001	
Female	1960 (65.5)	756 (62.9)	0.11	
BMI, kg/m ²	30.6 (26.9 - 35.8)	30.1 (26.5-34.7)	0.009	
Simple 7 score component				
Non-Smoking	2568 (85.8)	1060 (88.2)	0.04	
Ideal BMI	444 (14.8)	167 (13.9)	0.43	
Ideal Nutrition	22 (0.7)	8 (0.7)	0.81	
Ideal Physical Activity	556 (18.6)	276 (23.0)	0.001	
Ideal BP	569 (19.0)	322 (26.8)	< 0.0001	
Ideal Fasting Plasma Glucose	2268 (75.8)	1015 (84.4)	< 0.0001	
Ideal Cholesterol	1320 (44.1)	604 (50.3)	0.0003	

P values compare CMR imaging to no imaging. Values are median (25th-75th percentile) or n (%). Nonparametric tests (continuous variables) or chi-square testing (categorical variables) were used to determine P values. BMI = Body mass index; BP = Blood Pressure; CMR = Cardiac magnetic resonance. *Of note, some of these individuals may have had CMR at Visit 2. †Of 1202 participants who underwent CMR, 1188 had complete data on strain, and were included in our CMR analyses.

Supplemental Table 3. Analysis of the association of Life's Simple 7 with formally adjudicated incident HF.

	Model 1 HR	95% CI	p value	Model 2 HR	95% CI	p value
Simple 7 score 0-2	referent	referent	referent	referent	referent	referent
Simple 7 score 3	0.52	(0.35, 0.75)	0.0006	0.47	(0.30, 0.73)	0.0009
Simple 7 score 4-6	0.42	(0.24, 0.76)	0.004	0.45	(0.24, 0.85)	0.01
Number of participants	3661			3568		
Number of events	163			125		

Model 1 is adjusted for age and sex. Model 2 excludes adjudicated incident MI and fatal CHD at any time in JHS and is adjusted for age and sex. Incident HF was defined as formally adjudicated HF (after 1/1/2005). Abbreviations: CI = confidence interval; HR = hazard ratio; HF = heart failure